

Title (en)

HIGHLY FLEXIBLE MAPPING AND TREATMENT DEVICE

Title (de)

HOCHFLEXIBLE ABBILDUNGS- UND BEHANDLUNGSVORRICHTUNG

Title (fr)

DISPOSITIF DE TRAITEMENT ET DE CARTOGRAPHIE HAUTEMENT FLEXIBLE

Publication

EP 3573526 A1 20191204 (EN)

Application

EP 18744968 A 20180129

Priority

- US 201715418264 A 20170127
- CA 2018050101 W 20180129

Abstract (en)

[origin: US2018214045A1] A device and system for providing mapping and treatment capabilities without increasing stiffness of the device. An embodiment of a device may include a flexible elongate body and at least one mapping element on the distal portion of the elongate body. Each mapping element may be an area of thermally conductive material, such as metallic nanoparticles, that is embedded within, integrated with, or deposited on the elongate body. The flexibility of the areas of thermally conductive material is at least substantially the same as that of the elongate body so the device may include many electrodes without compromising flexibility and maneuverability of the device. Alternatively, the device may include a treatment element coupled to the elongate body, such as a balloon. The mapping elements may be embedded within, integrated with, or deposited on the balloon and may have at least substantially the same flexibility as that of the balloon.

IPC 8 full level

A61B 5/042 (2006.01); **A61B 18/04** (2006.01); **A61B 18/14** (2006.01)

CPC (source: EP US)

A61B 5/063 (2013.01 - EP US); **A61B 5/287** (2021.01 - EP US); **A61B 5/6853** (2013.01 - EP US); **A61B 18/02** (2013.01 - EP); **A61B 18/1492** (2013.01 - EP); **A61B 34/20** (2016.02 - EP); **A61B 90/37** (2016.02 - EP); **A61B 2018/00011** (2013.01 - EP); **A61B 2018/0022** (2013.01 - EP); **A61B 2018/00351** (2013.01 - EP); **A61B 2018/00577** (2013.01 - EP); **A61B 2018/00744** (2013.01 - EP); **A61B 2018/00779** (2013.01 - EP); **A61B 2018/00791** (2013.01 - EP); **A61B 2018/00821** (2013.01 - EP); **A61B 2018/00839** (2013.01 - EP); **A61B 2018/00863** (2013.01 - EP); **A61B 2018/00875** (2013.01 - EP); **A61B 2018/0262** (2013.01 - EP); **A61B 2090/374** (2016.02 - EP); **A61B 2090/3762** (2016.02 - EP); **A61B 2562/22** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

US 11369301 B2 20220628; **US 2018214045 A1 20180802**; CN 110267591 A 20190920; CN 110267591 B 20220812; EP 3573526 A1 20191204; EP 3573526 A4 20201021; EP 3573526 B1 20240710; WO 2018137044 A1 20180802

DOCDB simple family (application)

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